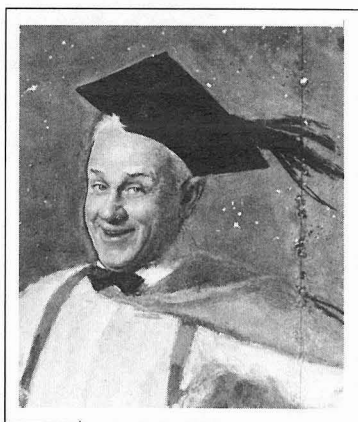


## Millikan Collection Microfilm Guide





*Greta and Robert Millikan Christmas 1918*

# the Robert Andrews Millikan Collection at the California Institute of Technology

## Guide to a Microfilm Edition

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**California**  
**Institute of Technology**  
Electrical Engineering  
Library

Archives  
California Institute of Technology  
Pasadena, California  
1977

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Cover: A caricature of Millikan by Arthur Cahill in the Athenaeum at the California Institute of Technology

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## Acknowledgments

The preparation of the microfilm publication of the Millikan papers has been a collective labor on the part of my staff and colleagues, and I am deeply grateful to them for seeing the project through to its successful conclusion. Johanna Tallman, Director of Libraries at Caltech, gave unstintingly of her time and energy in support of our research collections. Fred Shelley, recently retired from the NHPRC, encouraged me to seek funding for the Millikan project. Joanne Clark typed an endless number of target and roll sheets, as well as the contents of this pamphlet; Ann Underleak and Al Gunns systematically--and I might add, cheerfully--ordered and re-ordered the individual files before they went before the camera. The Huntington Library graciously allowed us to use its facilities to microfilm these papers; Erwin Morkisch brought a lifetime of photographic skill and patience to the actual microfilming of the papers and amply repaid Robert Millikan's 40-year-old kind deed of a letter of introduction to the Huntington Library, then in search of a photographer. I salute them all.

Judith R. Goodstein

## GENERAL INTRODUCTION

### Chronology

1868	March 22, birth of Robert Andrews Millikan, Morrison, Illinois
1873	family moved to McGregor, Iowa
1875	family moved again, to Maquoketa, Iowa
1876	July 16, birth of Greta Blanchard (Robert's wife)
1886	Robert entered Oberlin College
1891	bachelor's degree, Oberlin
1893	master's degree, Oberlin
1895	doctor's degree, Columbia
1895-1896	studied physics in Germany
1896	assistantship, University of Chicago, Physics Department
1900	exhibited some of A.A. Michelson's instruments at Paris World's Fair
1902	April 10, married Greta Blanchard; honeymoon in Europe
1903	August 23, Clark Millikan born
1906	May 23, Glenn Millikan born
1906	began construction of apparatus to determine value of $e$ , the elementary unit of electrical charge
1913	first definitive oil-drop paper
1913	December 12, Max Millikan born
1916	president, American Physical Society; member, National Academy of Sciences Committee to Organize National Research Council
1917	second definitive oil-drop paper
1917	<u>The Electron</u> , first edition
1917	February, moved to Washington to direct mobilization of civilian scientists
1918	proposed establishment of National Research Council Fellowships
1919	October, returned to Chicago
1921	August 1, appointment as director of the Norman Bridge Laboratory of Physics, and chairman of the Executive Council of the California Institute of Technology in Pasadena
1922	American member, League of Nations Committee on Intellectual Cooperation
1922	Millikan and Bowen's studies of cosmic rays by means of sounding balloons carrying self-recording electroscopes
1923	new series of cosmic ray measurements at the top of Pike's Peak

1923 Nobel Prize in physics  
 1925 became Trustee, Huntington Library and Art Gallery  
 1925 Caltech Associates formed  
 1925 Clark Millikan joins the Caltech faculty as Assistant in Physics  
 1928 Robert brought Thomas Hunt Morgan to Caltech as first chairman of the new Division of Biology  
 1930 Graduate School of Aeronautics opened under the direction of Theodore von Kármán  
 1930 Beno Gutenberg appointed first professor of Geophysics  
 1931 sailed to Europe to attend Rome nuclear physics conference  
 1932-1933 positron discovery made by Carl Anderson  
 1933 appointment by President Franklin D. Roosevelt to the Science Advisory Board  
 1937 discovery of the mu-meson by Neddermeyer and Anderson  
 1941 appointed consultant, National Defense Research Committee  
 1945 retired as chairman of the Executive Council; became vice-chairman of the Board of Trustees  
 1947 Glenn Millikan, professor of physiology at Vanderbilt University, killed in a mountain climbing accident  
 1948 symposium on cosmic rays, in honor of Robert's 80th birthday  
 1950 The Autobiography of Robert A. Millikan  
 1953 October 10, Greta Millikan died  
 1953 December 19, Robert Millikan died

## Provenance

For more than a year before his death, Millikan and Miss Inga Howard, his secretary, worked periodically at the reduction of his correspondence, apparently throwing away much that did not, in Millikan's judgment, concern directly the development of Caltech. The Director of Libraries at the time, Roger Stanton, offered his assistance, but, as he later reported, Millikan gently but firmly declined his help.

Shortly after Millikan's death, his family presented to the Institute an extensive collection of books, periodicals, correspondence, and manuscripts. This initial gift included edited typescripts of many speeches and of the autobiography, as well as holographic notes on the autobiography, copious physics lecture notes, and more than three dozen notebooks, including two, dated 1912, recording data on the oil drop experiment.

Millikan specified in his will that "family records, letters, photos, albums, clippings, and diaries" be turned over to his son, Clark. In 1959 Clark deposited in the Library four filing



drawers of memorabilia collected by Robert and Greta Millikan. All of the material was stored in the basement of the Arms Laboratory on the campus.

In the winter of 1965-66, with the aid and encouragement of the American Institute of Physics' Center for History of Physics, Daniel J. Kevles, historian of science at Caltech, began the collation and preliminary organization of the collection. Lee A. DuBridge, president of Caltech, made available funds and space for the project. The AIP's Center also provided financial support for the project from a grant made to it by the National Science Foundation for the general purpose of preserving source materials in the history of science. Kevles and his assistant, Rowena Danziger, produced a preliminary inventory list that served for many years as a guide to the collection. The Robert A. Millikan Collection was opened to scholars in September 1967. After Clark Millikan's death in 1966, the literary property rights to the collection passed to his widow, Mrs. Edith Millikan, who in turn formally bequeathed them to Caltech in 1975.

Following the establishment of a permanent archival program at the Institute in 1968, Archivist Judith R. Goodstein supplemented the collection with material from other sources, including additional gifts of the Millikan family and facsimiles of Millikan correspondence located in other repositories. The facsimiles have not been microfilmed with two exceptions: the notes Millikan wrote in 1894 on a course, probably under Michael Pupin at Columbia, and a holographic cosmic ray manuscript (1932). These two scientific items are at present the property of Pomona College and, with its permission, they have been microfilmed and are included as supplementary material on Roll 80.

Albert F. Gunns, historian at California State University, Long Beach, undertook in 1971 the systematic organizing, cataloging, and indexing of the collection. Gunns and Goodstein in 1975 published a detailed Guide to the Robert Andrews Millikan Collection at the California Institute of Technology (National Catalog of Sources for History of Physics, Report Number Four, vii, +217 pp., illus. New York: American Institute of Physics).

### Description of the Collection

The microfilm publication of the papers of Robert Andrews Millikan, American physicist, science adviser, and first executive head of the California Institute of Technology, consists of 80 rolls of film. They span a century of American political, social, and intellectual history. The documents cover the years 1847 to 1953, the year of Millikan's death, but the core of the collection consists of the official papers generated by Millikan after his move to

Pasadena in 1921. The collection, which includes more than 125,000 pages of letters, notebooks, unpublished speeches, addresses, lecture notes, and family papers, is the property of the California Institute of Technology and is housed in the Institute Archives on the campus.

Apart from Millikan's own scientific work, the collection reveals the central role he played in the development of physics in the United States and in national scientific affairs from 1914 through World War II. For these reasons, his papers are widely regarded as one of the richest collections of original documents bearing on the history of twentieth-century science.

The materials pertaining to Robert A. Millikan at the California Institute of Technology are extensive. In addition to the collected papers with which this microfilm publication is primarily concerned, there are in the Institute Archives the medals, citations, diplomas, academic regalia, and other awards given to Millikan in recognition of his scientific, scholarly, and civic achievements. A small segment of Millikan's private library, about 200 volumes, is also housed in the Archives, along with selected pieces of scientific apparatus and hundreds of photographs of Millikan, his family, and colleagues. Several sound recordings of talks given by Millikan have also been preserved.

The Millikan collection is divided into 10 series. The original collection consists of 99 boxes; the microfilm edition of 80 numbered rolls.

<u>Series</u>		<u>Rolls</u>	<u>Boxes</u>
I	Scientific Notes	1- 4	1- 4
II	Correspondence: World War I Material	5	5
III	Correspondence: Organizations and Committees	6-16	6-15
IV	Correspondence: Caltech	17-40	16-36
V	Personal Correspondence	41-48	37-46
VI	Family Correspondence	49-65	47-58
VII	Speeches and Articles	66-71	59-64
VIII	Autobiographical Writings	72-73	65-67
IX	Family Documents and Memorabilia	74-80	68-94
X	Printed Matter (not microfilmed)		95-99
Supplementary Material		80	---

## Description of Material Not Microfilmed

### Folder No.

- 5.1        Millikan correspondence pertaining to WWI work:  
            Recruitment of Scientists, 1917  
            5 letters: R. A. Millikan to H. M. Randall  
            1 letter: R. A. Millikan to H. B. Hutchins  
            Photocopies. Originals in University of Michigan  
                    Historical Collections, Ann Arbor, Michigan.
- 25.9       2 letters: R. A. Millikan to Albert Einstein, 1922, 1923  
            Photocopies. Originals in Albert Einstein Archives,  
                    Princeton, New Jersey
- 41.11      9 letters: R. A. Millikan to H. A. Lorentz, 1921-1925  
            Photocopies. Originals in Algemeen Rijksarchief,  
                    The Hague, The Netherlands.
- 42.9       2 letters: R. A. Millikan to Ernest Rutherford, 1919,  
            1920  
            Photocopies. Originals in Cambridge University Library,  
                    Cambridge, England.
- 43.11      3 letters: R. A. Millikan to William Rainey Harper,  
            1896-1898  
            1 letter: R. A. Millikan to Martin A. Ryerson, 1921  
            4 letters: R. A. Millikan to Henry Pratt Judson, 1921  
            1 letter: H. P. Judson to R. A. Millikan, 1921  
            Photocopies. Originals in University of Chicago Library,  
                    Chicago, Illinois
- 70.1       Clinton R. Blanchard  
            Clippings, correspondence, photographs, and  
                    biographical information on Greta Millikan's  
                    father
- 70.2       Ninetieth Birthday: Birthday cards and congratulatory  
            messages to C. R. Blanchard, 1941
- 70.3       Correspondence from his parents; 13 letters from  
            C. R. Blanchard's mother, 1912, 1920
- 70.4       Correspondence with daughters Greta and Jessie,  
            C. R. Blanchard's grandchildren, Lady Adams, and  
            correspondence re Gilbert W. Blanchard, ca. 1925-1942
- 70.5       Gilbert W. Blanchard  
            Obituary notices and a memorial booklet on Greta  
                    Blanchard Millikan's uncle
- 71.1       Millikan Baby Book: records kept by Greta Millikan  
            about Clark Millikan, his birth and early childhood
- 71.2       Millikan children's schoolwork; also includes copies

Folder No.

- of the Woodlawn Blatter, a family newspaper produced by the Millikan children
- 71.3      Miscellaneous Books  
            (1) 19th century edition of a life of George Washington (title page lacking)  
            (2) 19th century edition of a book on eminent mechanics (title page lacking)  
            (3) bound manuscript in Arabic, gift of Margaret R. Craig-McKenna in 1939
- 72.1      Robert A. Millikan Scrapbook  
            Eightieth Birthday: Cards. About fifty birthday cards and congratulatory messages, 1948
- 73.1      Scrapbook on Robert A. Millikan kept by Elizabeth Blanchard
- 73.2      Scrapbook ca. 1937
- 74.1      Robert and Greta Millikan's Wedding and Honeymoon Scrapbook, 1902
- 77.10     Greta B. Millikan engagement books  
            1932
- 77.11     1933
- 77.12     1948
- 77.13     1949
- 77.14     Greta B. Millikan address books  
            1922 (?)
- 77.15     ca. 1938
- 77.16     undated
- 77.17     undated
- 77.18     Greta B. Millikan Community Chest Notebook, 1927
- 77.19     Greta B. Millikan Notebook, 1931
- 77.20     Greta B. Millikan Notebooks, n.d.
- 77.21     Greta B. Millikan Christmas lists, address books, n.d.
- 78.7      Greta B. Millikan Health Reports, 1928-1949
- 79.3      Greta B. Millikan Souvenirs: College photographs, souvenirs of trip to Orient 1939-1940; miscellaneous pamphlets and programs
- 79.5      Greta B. Millikan News Items; also pamphlets re various organizations, politics, social questions, ca. 1940-1951
- 79.8-79.9 Greta B. Millikan's puzzles; includes also riddles, jokes
- 79.10     Plays: three short plays by Greta B. Millikan
- 83.8      Neighborhood Church: pamphlets, brochures, 1943, 1947, 1953

Folder No.

- 84.3 India Trip Diary: Greta B. Millikan's notes from books and articles on India, compiled before the trip as a guide on what to see and buy in India

Boxes

- 85-93 Photographs
- 94 Yearbooks  
Oberlin 1890 (2 copies), 1891  
University of Chicago, 1898  
Oberlin Alumni Magazines, Nov 1911, June 1912  
Addresses at Inauguration of Oberlin President, 1891  
(includes address by R. A. Millikan)
- 95-97 Robert A. Millikan Reprints (1895-1953) (incomplete)
- 98 Glenn and Max Millikan Reprints (incomplete)
- 99 Pamphlets and reports by other writers

Copyrighted publications, with the exception of newspaper clippings, were not microfilmed.

# Conversion Chart between Microfilm Rolls and Folders

<u>Roll</u>	<u>Folder No.</u>	<u>Roll</u>	<u>Folder No.</u>	<u>Roll</u>	<u>Folder No.</u>
1 =	1.1 - 1.14	26 =	24.8 -25.14	51 =	49.1 -49.7a
2 =	1.15- 2.10	27 =	25.15-25.33	52 =	49.8 -50.6
3 =	3.1 - 3.22	28 =	26.1 -26.21	53 =	50.7 -50.12b
4 =	4.1 - 4.15	29 =	26.22-27.7	54 =	51.1 -51.4a
5 =	5.1 - 5.29	30 =	27.8 -28.5	55 =	51.5 -52.2a
6 =	6.1 - 6.16	31 =	28.6 -29.4	56 =	52.3 -52.4e
7 =	7.1 - 7.13	32 =	29.5 -30.1	57 =	53.1 -53.8
8 =	7.14- 8.9	33 =	30.2 -30.14	58 =	53.9 -54.8
9 =	8.10- 9.6	34 =	30.15-31.10	59 =	54.9 -54.19
10 =	9.7 -10.2	35 =	31.11-32.13	60 =	55.1 -55.9
11 =	10.3 -10.10	36 =	32.14-33.12	61 =	55.10-55.27
12 =	11.1 -11.16	37 =	33.13-34.9	62 =	56.1 -56.13
13 =	12.1 -12.16	38 =	34.10-34.23	63 =	56.14-57.8
14 =	12.17-13.15	39 =	35.1 -35.17	64 =	57.9 -57.22
15 =	13.16-14.19	40 =	35.18-36.10	65 =	58.1 -58.17
16 =	14.20-15.18	41 =	37.1 -37.34	66 =	59.1 -59.68
17 =	16.1 -16.22	42 =	38.1 -39.7	67 =	60.1 -60.69
18 =	17.1 -17.35	43 =	39.8 -40.21	68 =	61.1 -61.67
19 =	18.1 -18.35	44 =	40.22-41.27	69 =	62.1 -62.28
20 =	19.1 -19.20	45 =	41.28-42.25	70 =	63.1 -63.47
21 =	19.21-20.24	46 =	42.26-43.9	71 =	64.1 -64.31
22 =	20.25-21.17	47 =	43.10-45.4	72 =	65.1 -66.21
23 =	21.18-22.13	48 =	45.5 -46.11	73 =	67.1 -67.8b
24 =	22.14-23.12	49 =	47.1 -47.17	74 =	68.1 -69.5
25 =	23.13-24.7	50 =	47.18-48.18		

<u>Roll</u>	<u>Folder No.</u>
75 =	70.6 -70.7
	72.2 -72.6
	72.8
	74.2 -74.3
	75.1 (Honeymoon Account Book, 1902)
	75.2 -75.7 (GBM's Account Books 1903-1908)
76 =	75.8 -76.3 (GBM's Account Books 1909-1923)
76a =	76.4 -76.10 (GBM's Account Books 1924-1930)
77 =	76.11-77.9 (GBM's Account Books 1931-1952)
78 =	78.1 -78.6
	78.8 -78.9
	79.1 -79.2
	79.4
	79.6 -79.7
	80.1 -81.18
79 =	82.1 -82.10 (GBM's Diaries 1931-1940)
80 =	83.1 -83.7 (GBM's Diaries 1941-1947)
	84.1 -84.7b
	Supplementary Material
	Boxes 85-99 not microfilmed

## Notes on Use of Collection

The arrangement of the papers mirrors almost exactly the order imposed on them by Millikan and his long-time secretary, Miss Inga Howard. Folder contents usually reflect their groupings, although the sequence in which the folders now appear may have been altered. The folder titles are generally an accurate guide to the contents of individual folders, although in some instances the titles provide only a partial description of its contents. The "Cosmic Ray Notebooks" folder in Series I, for example, contains three data books plus revisions for the second edition of Electrons (+ and -), Protons, Photons. . ., as well as drafts of various articles published between 1937 and 1942.

The researcher is urged to cross-check the collection in a number of places for information on a given individual or subject. For example, material relating to the National Academy of Science--National Research Council can be found not only in Series II but also in Millikan's personal correspondence with Frank Jewett in Series V. Cosmic ray material, for instance, may be located in several different places in Series IV of the collection, under such folder titles as "Carnegie Institution of Washington," "Meteorology," "Arthur H. Compton," and "Carl D. Anderson." The files of the California Institute Associates and those pertaining to campaign (for funds) in Series IV deal with the same subject and should be read together. Similarly, material relating to the Airship Committee is located in Series III in the files of the National Research Council and in Series IV of the collection.

Occasionally, the same subject appears in separate parts of the collection under different folder titles; the folder title, "Adult Education, 1928-1932," in Series IV, appears under the title "National Advisory Council on Radio in Education" in Series III and is but a chronological continuation of the same material. Finally, the correspondence in Section IV is not exclusively concerned with Caltech matters.

For scholars pursuing topics related to Millikan's professional activities, Rolls I through 46 of the collection will hold the greatest interest as they contain the bulk of correspondence and other papers dealing with scientific and academic matters. His lecture notes, found on Rolls 1 and 2, offer glimpses of Millikan's classroom technique as well as an insight into the state of physics at the turn of the century. Of similar interest is the assortment of notebooks on Rolls 3 and 4 in which Millikan recorded data from his scientific experiments. Millikan played a significant role in the mobilization of science for national defense during World War I, much of which is documented by materials on Roll 5.

Millikan's Chicago years are not well represented in the collection. Some material is scattered through several collections

at the University of Chicago, but no systematic collection of his early papers is extant.

The Caltech correspondence in Series IV is a prime source of information for the history of the Institute. In addition there is much material on the development of research in particular fields, including seismology and the use of X-rays for medical purposes.

Next to Einstein, Millikan during his lifetime was probably this country's most public figure in science. His papers, consequently, range widely over many issues and interests. There is a good deal of information, for example, on social and political conditions in Germany and Italy during the 1920s and '30s, on the plight of intellectuals forced out of Fascist countries, on the work of the League of Nations Committee on Intellectual Cooperation, on the development of the Henry Huntington Library during its formative years, and on the presidency of Herbert Hoover, to name but some of the topics likely to be of interest to scholars in the humanities and social sciences.

Millikan joined the Institute on a permanent basis in 1921. Judging from his correspondence files, Millikan brought with him from Chicago an impressive network of industrial, financial, academic, and government connections. There is considerable material on the role of the three giant philanthropic organizations--the Carnegie, Rockefeller, and Guggenheim foundations--in the expansion of higher education in this country in the post-World War I decades. The Aeronautics folders in Series IV are a natural starting point for investigating the impact of the Guggenheim Foundation, as the patron of aeronautics, on the industrial development of southern California.

Millikan, an avid writer, corresponded with a broad spectrum of the leading scientists, writers, business leaders, and public officials of his era. He exchanged frequent letters with such fellow scientists and administrators as Frank B. Jewett, Karl T. Compton, Paul Brockett, Albert Barrows, and Gano Dunn; and southern California business figures, such as Harry Chandler, Henry M. Robinson, Arthur H. Fleming, and John A. Fleming. Herbert Hoover and other political figures appear often in the collection. Millikan worked closely with astronomer George Ellery Hale and aerodynamicist Theodore von Kármán; their papers (also housed in the Institute Archives) contain a great many more Millikan letters. The critical role played by Caltech during World War II is shown in his extensive correspondence with Henry H. ("Hap") Arnold and Vannevar Bush.

The Index to Correspondents in the Guide--the first 46 rolls of film and the first folder (43.10) on Roll 47--covers Millikan's professional career. The remaining, unindexed rolls are



primarily personal and family material. Here is found the voluminous number of letters which Millikan and Greta exchanged almost daily during the frequent periods they were apart. Greta's correspondence with other family members and friends is also found on these rolls. Together these letters provide a rich social commentary, not only on the private lives of the Millikan family, but also on contemporary events, and in Greta's case, on her role as the wife of a world-famous public figure.

Other family material in the collection includes letters and writings by the couple's three sons, Clark, Glenn, and Max, as well as members of each of their families. The Institute Archives also has the papers of Clark Millikan, professor of aeronautics at Caltech from 1928-66. An additional collection of letters written by Glenn A. Millikan during the decade 1929-39 while he was a fellow of Trinity College in Cambridge, England, is available in a separate microfilm edition.

The most widely available as well as the fullest account in print of Millikan's life and works is his Autobiography (New York: Prentice-Hall, Inc., 1950). It is informative but not always reliable. Of particular value are his accounts of his early years, his work while at Chicago, and his national service during World War I.

Lee A. DuBridge and Paul S. Epstein's "Robert Andrews Millikan, 1868-1953: A Biographical Memoir," National Academy of Sciences Biographical Memoirs, XXXIII (New York: Columbia University Press, 1959), pp. 240-82, provides a biographical sketch and an appreciation of Millikan's scientific and administrative accomplishments. Appended to the memoir is a complete bibliography of Millikan's published writings, approximately three hundred of which appeared between 1895 and 1950.

Another valuable biographical piece, emphasizing Millikan's scientific endeavors, is "Robert A. Millikan," in the Dictionary of Scientific Biography, IX (1974), pp. 395-400, by Daniel J. Kevles. A comprehensive history of the rise of modern physics in the twentieth century, again by Kevles, The Physicists (New York: Alfred A. Knopf, 1977), is based in part on materials in the Millikan Collection.

A more personal account of Millikan's life, prepared by Jesse W. M. DuMond, a student and close scientific colleague of "the Chief," is included in the facsimile edition of the original 1917 edition of The Electron, Phoenix Science Series (Chicago: University Press, 1963), pp. xi-lvii.

Other manuscript collections in the Institute Archives which contain material pertinent to Millikan's career are: the George Ellery Hale papers (microfilm edition also available); the

Thomas Hunt Morgan papers; the Victor Neher papers; and the Arthur Amos Noyes papers.

The microfilm edition of the Millikan Collection is available for purchase in quantities of one or more of the 80 rolls that comprise the complete edition. Applications to consult the original collection, orders for the purchase of the film, and requests for copies of the microfilm guide should be addressed to the Archivist, Millikan Library 1-32, California Institute of Technology, Pasadena, California 91125.

Interlibrary loan requests for the film should be addressed to the Interlibrary Loans Office, Millikan Library.

Judith R. Goodstein

## ROLL INDEX

Folder Number	Title
---------------	-------

SERIES 1: SCIENTIFIC NOTES

## Roll 1

- |      |  |
|------|--|
| 1.1  | Millikan Lecture Notes: Second Term, Winter Quarter 1899   |
| 1.2  | Thermodynamics, Spring 1899  |
| 1.3  | Kinetic Theory, Summer 1899  |
| 1.4  | Molecular Physics and Heat, Winter 1900  |
| 1.5  | Electricity and Magnetism, Summer 1901   |
| 1.6  | Heat and Molecular Physics, Autumn 1901  |
| 1.7  | Electricity and Optics, Spring and Summer 1903   |
| 1.8  | Radioactivity: Talk to "Western Electricians,"<br>Computation of life of radium, and "McCoy's<br>references," October 1903 |
| 1.9  | Electrical Part of Molecular Physics, Spring 1904  |
| 1.10 | Recent Advances in Kinetic Theory, Summer 1904   |
| 1.11 | Radioactivity, ca. 1904  |
| 1.12 | Experiments in Course #3, Spring 1905  |
| 1.13 | Notes on Velocity of Sound, ca. 1905   |
| 1.14 | Lenard on Ultraviolet Light Discharge, ca. 1905  |

## Roll 2

- |      |   |
|------|---|
| 1.15 | Electron Theory, Summer 1910  |
| 1.16 | Unitary Theories, Fall 1912   |
| 1.17 | Atomic Theories of Radiation, Summer 1913                                   |
| 1.18 | Kinetic Theory, Fall 1914   |
| 2.1  | Electron Theory of Matter, Winter 1915                                      |
| 2.2  | Thermodynamics and Radiation, Spring 1915                                   |
| 2.3  | X-rays and Atomic Structure, Summer 1915                                    |
| 2.4  | Quantum Theory, Summer 1916   |
| 2.5  | Quantum Theories and Theories of Atomic<br>Structure, Summer 1920           |
| 2.6  | Exams, Quizzes, Miscellaneous, 1925-1945                                    |
| 2.7  | History of Modern Atomic Physics, Fall 1947                                 |
| 2.8  | Thermodynamic Theory of Thermal Currents and<br>Pressure of Radiation, n.d. |
| 2.9  | "Pedagogy of Physics," n.d.   |
| 2.10 | "Scraps," Thermodynamics, n.d.  |

## Roll 3

- 3.1 - 3.2      Millikan Scientific Notebooks: Photo-electric Effect,  
                      1909-1911

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Series 1, Roll 3 (continued)

3.3 - 3.4      Oil Drop Experiment, 1911-1912  
3.5            Tests on Bubble Patent Machine, ca. 1920  
3.6            Photo Phenomena, 1911  
3.7            Record of Data Obtained in Experiments in  
                 General Physics, U of C, vol. #2, 1897  
3.8            References to Important Articles  
3.9 - 3.21      Cosmic Ray Notebooks  
3.22           "The Penetrating Radiation"

Roll 4

4.1            Millikan Manuscript: "A Redetermination of the  
                 Value of the Electron and Related Constants,"  
                 1916  
4.2 - 4.3      Millikan Notebooks, 1896 (Göttingen), 1919  
4.4            Miscellaneous Data Sheets, 1919  
4.5            Millikan Notes: Problems of Wave Mechanics, 1929  
4.6            Lecture on Electric Dispersion  
4.7            Miscellaneous: Physics in France and Germany  
4.8            Solvay Conference, 1921  
4.9            Millikan Manuscript: "New Results on Cosmic Rays,"  
                 by R.A.M. and G.H. Cameron  
4.10           First Draft of Article on Anomalous Dispersion  
                 of Electric Waves (in German)  
4.11           "New Proofs of the Kinetic Theory of Matter  
                 and the Atomic Theory of Electricity"  
4.12-4.14      Millikan Manuscripts: Miscellaneous Writings, Drafts,  
                 and Notes  
4.15           Notes Labeled "Valueless Scraps, picked up or  
                 thought up while writing article on  
                 Anomalous Dispersion of Electric Waves"

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SERIES II: CORRESPONDENCE: WORLD WAR I MATERIAL

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Roll 5

5.1            Millikan Correspondence Pertaining to WW I Work:  
                 Recruitment of Scientists, 1917 (Photocopies;  
                 not microfilmed)  
5.2            1917-1920  
5.3            National Research Council: Reprint of Letter:  
                 G.E. Hale to New York Times, July 26, 1916  
5.4            Letter: G.E. Hale to Secretary of War,  
                 Nov. 18, 1916

Series II, Roll 5 (continued)

- 5.5 Correspondence, 1917, 1940
- 5.6 Foreign Service Committee Correspondence,  
April 15-Oct 5, 1917
- 5.7 Work of 1917
- 5.8 NAS and NRC as Factors in National Progress:  
Statement by G.E. Hale, 1917
- 5.9 Report by G.E. Hale, 1917(?)
- 5.10 Report to Council of National Defense, 1918
- 5.11 Division of Physical Sciences: Report, 1918
- 5.12 Re Executive Order, 1918
- 5.13 Purpose and Needs: G.E. Hale, 1918(?)
- 5.14 Report by Vernon Kellogg, 1919(?)
- 5.15 Origin and Purposes: R.A. Millikan, 1919
- 5.16 Pamphlets and Article, 1917-1919, 1943
- 5.17 Physics and Engineering Divisions
- 5.18 Aircraft Production: Report for Sept 1918
- 5.19 Report for Oct 1918: R.A. Millikan
- 5.20 Balloons
- 5.21 Propaganda Balloons: W.J. Lester, Oct 1918
- 5.22 Brief History of Bureau: C.M. Sparrow
- 5.23 Submarine Detection: New London Experimental Station:  
R.A. Millikan, 1918-1919
- 5.24 Millikan Testimony Before Navy General Board, 1918
- 5.25 Research Report, 1918
- 5.26 Clipping, 1919
- 5.27 War Department: Science and Research Division:  
Organization Chart
- 5.28 Millikan Military Service Documents, 1917, 1918, 1921,  
1926, 1931, 1936, 1941
- 5.29 WW I Miscellany

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**SERIES III: CORRESPONDENCE: ORGANIZATIONS AND COMMITTEES**

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Roll 6

- 6.1 -6.10 National Academy of Sciences: General Correspondence,  
1913, 1921, 1923, 1925-1949
- 6.11 Comstock Fund, 1935-1938
- 6.12-6.15 Foreign Secretary, 1924-1934
- 6.16 Proceedings, 1947-1952

Roll 7

- 7.1 -7.7 National Research Council: General Correspondence,  
1916, 1918-1919, 1921-1926

Series 111, Roll 7 (continued)

Roll 8

Roll 9

Roll 10

Roll 11

Roll 12

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Series III, Roll 12 (continued)

11.16 Letters of French and German Scientists about  
WW I, 1922-1924

Roll 13

12.1 American Philosophical Society, 1935-1938, 1940-1943,  
1948-1949  
12.2 American Physical Society, 1943, 1946-1950, 1953  
12.3 Christian Colleges in China, 1937, 1939-1940  
12.4 CRB (Commission for Relief in Belgium) Educational  
Foundation, 1935-1936  
12.5 Edison Medal Committee, 1923  
12.6 Hall of Fame, 1945  
12.7 Honors and Addresses, 1925-1926, 1930, 1932, 1941,  
1944-1945, 1955  
12.8 -12.16 Huntington Library and Art Gallery, 1925-1942

Roll 14

12.17-13.13 1943-1949, 1953  
13.14 Air Conditioning Project, 1946; Huntington  
Salary Scales  
13.15 Committee on Urgent Needs, 1947

Roll 15

13.16 Institute of International Education, 1922-1923  
13.17-14.7 League of Nations: Committee on Intellectual  
Cooperation, 1922-1933  
14.8 Lincoln Club, 1941-1943  
14.9 -14.12 National Advisory Council on Radio in Education,  
1932-1937  
14.13 National Association of Manufacturers, 1940-1944,  
1948  
14.14 National Economic Council, 1935-1936  
14.15 Neighborhood Church, 1943-1945  
14.16-14.19 Nobel Prize, 1923-1925, 1933-1937, 1940-1949, 1951

Roll 16

14.20-14.22 Oberlin College, 1940, 1942-1946, 1950  
15.1 -15.2 Pasadena Art Institute, 1943, 1946-1947  
15.3 Pasadena Music and Art Association, 1947  
15.4 -15.5 Science Service, 1921, 1946, 1948-1949  
15.6 -15.17 Thacher School, 1923, 1930-1939, 1941-1949  
15.18 UNESCO (United Nations Educational, Scientific  
and Cultural Organization), 1949-1950

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SERIES IV: CORRESPONDENCE: CALTECH

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Roll 17

16.1            Abrams, Albert, 1922-1925  
16.2 -16.4       Adult Education, 1928, 1930-1932  
16.5 -16.22      Aeronautics, 1925-1927, 1929-1931, 1933-1949

Roll 18

17.1 -17.2       Air Pollution, 1945-1947  
17.3            Airplane Surveying, 1924  
17.4            Airship Committee, 1936  
17.5            Alcohol Problems, 1938, 1948, 1950  
17.6            Alumni Association (Caltech), 1947  
17.7 -17.9       American Association for the Advancement of  
                         Science, 1930-1932, 1939  
17.10           American Foundation Studies in Government, 1937  
17.11           Anderson, Carl D. (Nobel Prize), 1935-1936  
17.12           Applications for Positions, 1946-1948  
17.13           Architecture and Landscape Gardening, 1928  
17.14-17.23      Associates (California Institute), 1925-1929, 1933-1948  
17.24-17.25      Astrophysical Observatory, 1928-1929  
17.26-17.32      Astrophysical Observatory and Laboratory, 1931-1941,  
                         1946-1948  
17.33           Athenaeum, 1930-1932, 1949  
17.34-17.35      Atomic Energy, 1945-1947

Roll 19

18.1            Balch Portraits and Miscellany, 1938, 1941-1943  
18.2            Beard, Charles A.: "A Historian's Quest for Light,"  
                         1931  
18.3 -18.6       Biochemistry, 1936-1938, 1942  
18.7 -18.24      Biology, 1924-1931, 1933, 1935-1946, 1948, 1950  
18.25-18.29      Borsook, Henry (Nutrition Studies), 1941-1945, 1949-1950  
18.30            Bridge, Norman: Relations to the Institute, 1925  
18.31            Norman Bridge Laboratory: Miscellany, 1920-1925  
18.32            Building Committee, 1944  
18.33-18.35      Buildings and Grounds, 1931-1936, 1938-1939, 1941,  
                         1943-1944

Roll 20

19.1 -19.2       Calendar Revision (and Metric System), 1936, 1947-1949  
19.3            California Fruit Growers Exchange, 1935-1936  
19.4            California Graduate School of Design, 1939, 1941  
19.5            California Institute Research Foundation, 1941, 1950  
19.6            California Society for the Promotion of Medical  
                         Research (Antivivisection), 1938  
19.7            Caltech: Statistics, Miscellany, 1935, 1939-1941, 1945,  
                         1948-1951



Series IV, Roll 20 (continued)

19.8 -19.20 Campaign (for funds), 1924-1925, 1929-1938

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19.21-20.6 1939-1951  
20.7 Camouflage, 1942  
20.8 Cancer Problem, 1943, 1948  
20.9 -20.12 Carnegie Corporation of New York, 1920-1923,  
1927-1928, 1931-1934, 1936-1941  
20.13 Carnegie Endowment for International Peace, 1946  
20.14-20.24 Carnegie Institution of Washington, 1911, 1919,  
1921-1924, 1927, 1929-1930, 1932-1944, 1946,  
1948, 1950

Roll 22

20.25 Carruthers, John F. B., 1930, 1934  
20.26-20.27 Chemistry, 1936-1938, 1944-1945  
20.28 Chemical Engineering, 1944-1945  
20.29 China: War Relief, 1946-1947  
20.30 China: United Board for Christian Colleges, 1948-1949  
21.1 -21.9 Caltech War Service, 1939-1945  
21.10 California Institute Research Foundation, 1941-1942  
21.11 Civil Engineering, 1945, 1950  
21.12-21.13 Committee on Contracts, 1944-1945  
21.14-21.15 Committee to Defend America by Aiding the Allies,  
1940-1941  
21.16 Committee on Seismology, 1921  
21.17 Commonwealth Fund, 1925

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21.18-21.21 Compton, Arthur H., 1929, 1932-1933, 1936-1937, 1939,  
1941, 1948-1949  
22.1 -22.13 Cosmic Rays, 1922, 1925-1926, 1929-1935

Roll 24

22.14 Re Balloon Recovery, 1935  
22.15-23.12 1936-1949, 1951

Roll 25

23.13 Criticisms of the Institute, 1935  
23.14 Department Research Library, 1950  
23.15 Design of Caltech Buildings, 1924  
23.16 Devreese, G. (Caltech Seal), 1923-1925  
23.17-23.18 Dickey Collection, 1933-1938  
23.19 Dilworth, Robert P., 1942  
23.20-23.22 Direction Finder, 1941-1943  
23.23 Dormitories, 1928-1932  
23.24-23.27 DuMond, Jesse W. M., 1934-1938, 1940-1945  
23.28 Eagle, John H., and Marsh, Robert Jr., Estates of,  
1945-1947

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24.1 -24.6   Earhart Foundation, 1935-1949  
24.7   Earhart Laboratories for Plant Research,  
1946-1948, 1950

Roll 26

24.8   Einstein, Albert: General Correspondence, 1932-1933  
24.9 -24.10   Earthquake Protection, etc., 1933-1936  
24.11   Economics and Economic Problems, 1946-1948  
24.12   Educational Problems, 1937-1938, 1942, 1947, 1949  
24.13   Electrical Engineering, 1946, 1950  
24.14   Engineering Committee, 1938-1939  
24.15   Engineering Foundation, 1922-1923  
24.16   Engineering, Science, and Management Defense  
Training Courses, 1942  
24.17   Epstein, Paul S. (Charles L. Mayer: Nature of Light  
Awards)  
24.18   Erosion Problems, 1935  
24.19   Extension of Curriculum of CIT to Five or More  
Years, 1922-1923  
24.20-24.21   Faculty Activities, 1930-1931, 1935-1938  
24.22-24.23   (Including Trustees) 1939-1943  
25.1 -25.2   Faculty Personnel, 1942-1945  
25.3   Faculty Credentials, 1924-1926  
25.4   Federal Support of American Education, 1945  
25.5   Fellowships and Foundations, 1936-1937  
25.6   Fisher Body Craftsman's Guild, 1946-1949  
25.7   Fleming (Arthur H.) Portrait, 1923  
25.8   Fleming Trust Agreement, 1922  
25.9   Foreign Associates, 1924-1925  
25.10   Fowler, William, 1953  
25.11   Friends of the Institute, 1924, 1926, 1929  
25.12   Fund Raising Activities (Fellowships, etc.),  
1944-1945, 1949  
25.13   GALTIC (Guggenheim Aeronautical Laboratories of  
CIT), 1945  
25.14   Gas Turbines and Jet Engineering Developments, 1945

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25.15-25.16   General Education Board (Rockefeller Foundation), 1923,  
1925, 1927-1931, 1933, 1937-1939, 1941  
25.17-25.22   Geology, 1922-1927, 1929-1931, 1933-1945  
25.23-25.28   Goetz, Alexander (S. Kyropoulos), 1935-1947  
25.29-25.31   Guayule, 1942-1947, 1949, 1951  
25.32   Guided Missile, 1945-1948  
25.33   Gymnasium, 1930

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- 26.1 -26.2 Hale (George Ellery) Book, 1938-1939, 1945-1947
- 26.3 Hale Bust, 1940-1941
- 26.4 Hale Letters, 1916, 1919, 1921-1924, 1928-1929,  
1934, undated
- 26.5 Hall of Fame, 1949
- 26.6 Harkness, Edward S., 1936-1938
- 26.7 Herman, Raphael, 1924-1928, 1930
- 26.8 High Voltage Laboratory, 1921-1924, 1926
- 26.9 Hixon Fund, 1938-1939
- 26.10 Hoag, George G., 1938
- 26.11 Human Betterment Foundation, 1942, 1944-1945
- 26.12 Humanitarian Causes, 1942
- 26.13-26.15 Humanities at the Institute, 1925-1929, 1938, 1940-1946
- 26.16-26.17 Industrial Design, 1942-1946
- 26.18 Industrial Projects, 1935, undated
- 26.19-26.21 Industrial Relations, 1925, 1938-1939

### Roll 29

- 26.22-26.23 (Letters Written During Campaign for Funds),  
1939
- 26.24-27.6 1940-1946
- 27.7 Institut de France: American Members, 1947-1948

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- 27.8 -28.5 Institute Official Papers: Correspondence, 1921-1942

### Roll 31

- 28.6 -28.10 1943-1947, 1949, undated
- 28.11-28.12 Institute of Pacific Relations, 1937-1938, 1944-1946, 1952-1953
- 28.13 International Education Board, 1925, 1927
- 28.14-29.3 International Exchange of Students, 1939, 1941-1947
- 29.4 Japanese Problems, 1944-1945

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- 29.5 -29.6 Jet Propulsion, 1945-1946
- 29.7 -29.12 Kellogg, W. K., 1936-1943, 1947-1949
- 29.13 Knapp: Guam Project, 1946
- 29.14 Krick's Long-Range Forecasting, 1943
- 29.15 Kyropoulos, S., 1937-1939
- 29.16 Lacey-Sage Oil Problems, 1943-1944
- 29.17 Laing, Graham A., 1932-1934
- 29.18-29.22 Lauritsen, Charles C., 1924, 1930-1934, 1938, 1940
- 29.23 Lightning Protection, 1927
- 29.24 Library, 1928, 1937

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29.25            Lorentz (Hendrick Antoon) Fund, 1925-1926  
29.26            Lomonossoff, George, et al., 1929-1930  
29.27            Marsh, Robert Jr., 1940-1942  
29.28            Mechanical Engineering, 1937  
29.29            Merrill, Albert A., 1921, 1927-1929, 1931, 1949  
29.30-30.1       Metallurgy, 1933-1934, 1942-1943

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30.2 -30.14       Meteorology, 1919-1924, 1926, 1931, 1933-1942

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30.15-31.3                1943-1947, 1950-1951, 1953  
31.4            Metropolitan Water District, 1934  
31.5            Military Training, 1936  
31.6            Model Studies on Surge Phenomena, 1945  
31.7            Mudd (Seeley W.) X-ray Research Fund, 1931-1932  
31.8 -31.9       Nash, Charles W., 1945-1946  
31.10           National Defense Research Committee (Office of  
                         Scientific Research and Development),  
                         1941-1943

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31.11-31.13       Navy V-12 Program, 1943-1945  
31.14-31.15       Near East, 1924-1925  
31.16            Nerve Regeneration, 1942-1943  
31.17            Noyes, Arthur A., 1928, 1936-1937  
31.18            Nutrition Project, 1942  
31.19            H. Borsook, "Progress Report on a Nutrition  
                         Survey at Lockheed Aircraft Corp."  
31.20            H. Borsook, "Progress Report on a Nutrition  
                         Survey at Rancho Los Amigos"  
31.21            H. Borsook, "Survey of Nutritional Values . . .  
                         L.A. County General Hospital"  
31.22            1943  
31.23            Observatory Council, 1935-1936, 1938, 1947  
31.24            ORDCIT, 1945  
31.25            Palomar Observatory: Bibliography, ca. 1940  
31.26-31.27       Patent Policies, 1934, 1938-1939, 1943-1946  
31.28            Pauling, Linus C., 1941  
31.29            Personnel Problems, 1943  
32.1            Peruvian Expedition, 1930  
32.2 -32.3       Physical Education, 1923, 1926, 1942-1943  
32.4            Planetarium, 1930, 1933-1935  
32.5            Plant Protection, 1942, 1944-1945  
32.6            Poitras, Ed, 1943  
32.7            Political and Religious Persecution, 1938-1939

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32.8 -32.9 Potapenko, G., 1937, 1939, 1941, 1944  
32.10 Post-War Organization and Military Problems, 1946  
32.11 Radar, 1943-1945  
32.12 Radio-Active Research, 1933  
32.13 Radio Direction Finding, 1944

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32.14-32.15 Rare Metals Research, 1937-1941  
32.16 Research Fellowship Board, 1922  
32.17 Research Foundation (CIT), 1944-1947  
32.18 Research Information Service (Future of), 1922  
32.19 Research Projects (Unclassified), 1929  
32.20 Robinson, Henry M., 1928  
32.21 Rockefeller Foundation, 1923  
32.22 General Education Board, 1925-1927  
32.23-32.30 1930-1946  
32.31 Rockefeller Fund for Mosaic Structure (A. Goetz),  
1930, 1932  
32.32 Rocket Work: Roswell, N.M., 1931  
32.33 Royal Society, 1923-1924  
32.34 Rubber Committee, 1942  
32.35-32.36 Schmidt Camera, 1940-1941  
32.37 Science and Religion, 1922-1924, 1948  
32.38 Science Legislation, 1946  
32.39 Scribners, 1926, 1928, 1930  
32.40 Scripps Institution of Oceanography, 1928, 1932  
33.1 -33.12 Seismology, 1921-1930, 1933-1937, 1939-1942

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33.13 Selection Problems, 1943  
33.14 Selective Service, 1942  
33.15 Signal Corps, 1925  
33.16 Socialists, Correspondence with, 1924  
33.17-33.18 Soil Conservation, 1940-1942, 1944  
33.19 Soil Erosion Problems, 1935-1936  
33.20-33.23 Standard Oil Company, 1923-1931  
33.24 Steel, 1941-1942  
33.25-33.26 Strauss, Lewis L., 1938-1940  
33.27-33.28 Supersonic Wind Tunnel, 1940, 1942-1943  
34.1 "T" on the Mountain (Caltech's), 1924-1927, 1929  
34.2 Taxation, 1942, 1944  
34.3 Television, 1945  
34.4 Terminal Island Surge Study, 1943  
34.5 Texaco, 1945  
34.6 Throop Hall Building Fund, 1909-1910  
34.7 Tolman, Richard, 1928  
34.8 -34.9 U.S. Steel, 1927-1929

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34.10-34.21	Vacant Positions/Letters of Recommendation, 1938-1949
34.22-34.23	Vacuum Switch/Vacuum Transmission, 1927-1930, 1932-1934

- 35.1 -35.10 Visiting Scholars and Fellows, 1929-1932, 1939-1947, 1949
- 35.11 Wage Rate Committee: Miscellaneous Papers, 1943
- 35.12 Wage Rate Problems: Correspondence, 1944
- 35.13 War Miscellany, 1944, 1946, undated
- 35.14-35.15 War Department, 1926-1927, 1929
- 35.16 Warner, T. W.: Reports re Petroleum Refining,  
undated
- 35.17 Watters, Leon L., 1938-1939, 1945

35.18-36.5	Weather Bureau, 1933-1941
36.6 -36.8	Wind Tunnel Project, 1942-1945
36.9	World War II: Miscellany, 1940, 1945-1946
36.10	YMCA, Caltech, 1944, 1949-1950

37.1	Adams, James Truslow, 1939-1941
37.2	Alexander, Gross, 1929-1931
37.3	American Bible Society, 1944-1949
37.4	American Committee for Democracy and Intellectual Freedom, 1940-1942
37.5	Angell, James, 1919, 1927, 1932
37.6	Arnold, Harold D., 1913
37.7	Arrhenius, Svante, 1918, 1924
37.8	Atlantic Union Committee, 1949-1950
37.9 -37.12	"A" Miscellaneous Correspondence
37.13	Bajpal, (Sir) Girja S., 1944
37.14	Balch, (Mr. and Mrs.) Allan C., 1938-1941
37.15	Barkla, C. G., 1912
37.16	Barker, Joseph W., 1953
37.17	Barrett, Edward C., 1921, 1934
37.18	Beard, Charles A., 1929, 1930

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37.19 Bird, Remsen D., 1938  
37.20 Birge, Raymond T., 1928-1930  
37.21 Bohr, Niels, 1932-1938  
37.22 Boswell, James G., 1942, 1949, 1952-1953  
37.23 Bowen, Ira, 1927  
37.24 Bragg, W. H., undated  
37.25 Bridgman, Percy, 1946, 1950  
37.26 Brillouin, Leon, 1928  
37.27 Brittain, William J. (Brittain Scienservice), 1929  
37.28 Brode, Robert B., 1929, 1950  
37.29 de Broglie, M., 1917, 1933  
37.30 Brookes (Mr. and Mrs.), Herbert, 1943-1945, 1947-  
1948, 1950, 1952  
37.31 Butler, Nicholas Murray, 1916  
37.32-37.34 "B" Miscellaneous Correspondence

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38.1 Caltech, 1921-1922  
38.2 Cancer Prevention Society, 1946, 1948  
38.3 Capra, Frank, 1916  
38.4 Carty, John J., 1913  
38.5 Chadwick, J., 1935  
38.6 Chandler, Harry, 1938  
38.7 Chicago, University of, 1914, 1916, 1921-1923  
38.8 Chou, P. Y., 1947  
38.9 Clay, J., 1935  
38.10 Cockrell, Ewing, 1947-1951  
38.11 Cole, A. D., 1910  
38.12 Compton, Karl T., 1932, 1940, 1943, 1947  
38.13 Condon, Edward, 1926  
38.14 Copeland, Lewis/Copeland and Lamm, Inc., 1944, 1946-1947  
38.15 Crank Letters  
38.16 Crew, Henry, 1943, 1949  
38.17-38.22 "C" Miscellaneous Correspondence  
38.23 Darwin, Charles, 1921  
38.24 Davisson, C. J., 1937  
38.25 Debye, Peter, 1929  
38.26 Demuth, F., 1938  
38.27 Dewey, John, 1938  
38.28 DuBridge, Lee, 1934  
38.29 Dunn, Gano, 1918, 1929-1931, 1934, 1937-1938, 1940,  
1942-1950, 1952  
38.30 DuNouy, Lecomte, 1943, 1946-1949  
38.31-38.32 "D" Miscellaneous Correspondence  
39.1 Earhart, Harry B., 1934, 1939-1940, 1950-1953  
39.2 Earhart, Richard, 1910  
39.3 Eddington, A. S., 1929  
39.4 Edison (Thomas Alva) Foundation, 1941-1942, 1945-1946,  
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39.5	Ehrenfest, Paul, 1925-1926, 1931
39.6	Ehrenhaft, Felix, 1939
39.7	Einstein, Albert, 1922, 1925, 1927, 1929-1933, 1943, 1945

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39.8	Epstein, Paul S., 1921, 1932, 1941, 1943
39.9 -39.10	"E" Miscellaneous Correspondence
39.11	Farrand, Beatrix and Max, 1933, 1939, 1943
39.12	Farrand, George E., 1934-1935, 1938-1939, 1945-1946
39.13	Few, W. P., 1936
39.14	Fifield, James W., 1938, 1944, 1946, 1949, 1952
39.15	Firestone, Clark B., 1941, 1949-1951
39.16	Fletcher, Harvey, 1930
39.17	Flexner, Simon, 1921
39.18	Fowler, Ralph H. (National Research Council, Canada), 1940
39.19	Franck, J., 1933
39.20-39.22	"F" Miscellaneous Correspondence
39.23	Gale, Henry and Agnes, 1934, 1953
39.24	Garland, Hamlin, 1933
39.25	Ginn and Company, Publishers, 1919, 1923, 1931-1932, 1935-1936, 1941, 1950-1951, 1953
39.26	Giorgi, Giovanni, 1939
39.27	Gurney, Lawrence E., 1927, 1929-1930, 1932
39.28-39.29	"G" Miscellaneous Correspondence
40.1	Haight, George I., 1943, 1949
40.2	Hallock, William, 1895
40.3	Hardy, G. H., 1929
40.4	Harms, F., 1929-1930
40.5	Harrington, E. L., 1947
40.6	Hawkes, Albert W. (Senator), 1946-1947
40.7	Haynes, Sherwood K., 1946
40.8	Heisenberg, Werner, 1932, 1951
40.9	Hess, Victor F., 1926
40.10	Hill, A. V., 1940
40.11	Hilton, Henry, 1931, 1933, 1942, 1947
40.12	Hofmann, Otto, 1896
40.13	Hoover, Herbert, 1929, 1931, 1935, 1937-1938, 1940
40.14	Hoshour, Harvey, 1945
40.15	Howard, Frank, 1936, 1944-1948
40.16	Hull, Cordell (Secretary of State), 1939-1940
40.17	Hyde, James H., 1945, 1950
40.18-40.21	"H" Miscellaneous Correspondence

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40.22	Ishida, Yoshio, 1935-1937
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40.23 "I" Miscellaneous Correspondence  
40.24 Jeans, J. H., 1930, 1934  
40.25-40.26 Jewett, Frank B., 1903, 1908, 1915, 1918, 1923,  
1929, 1931-1932, 1935, 1937-1938, 1940, 1942-1950  
40.27 Joffé, A., 1926  
40.28 Joly, J., 1920, 1924  
40.29 Judd, Charles H., 1918-1919  
40.30-40.31 "J" Miscellaneous Correspondence  
41.1 -41.2 "K" Miscellaneous Correspondence  
41.3 Langevin, Paul, 1928  
41.4 Langmuir, Irving, 1915-1916  
41.5 Larmor, Joseph, 1913, 1921  
41.6 LeLinn, Arthur, 1917  
41.7 Liebold, Anna, 1897  
41.8 Lindemann, F. A., 1913, 1916, 1918-1919, 1932  
41.9 Lloyd, Ralph B., 1935, 1944, 1947, 1949  
41.10 Lorentz, H. A., 1921, 1923, 1926, 1928  
41.11 Copies of letters from R. A. Millikan  
(Originals in Algemeen Rijksarchief, The  
Hague), 1921-1925 (not microfilmed)  
41.12 Lowell, Percival, 1911  
41.13 Luce, Henry, 1942-1946  
41.14-41.16 "L" Miscellaneous Correspondence  
41.17 Macmillan Co., Publishers, 1928, 1935, 1937-1938,  
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41.18 Mason, Max, 1939  
41.19 Matthauch, J., 1939, 1946-1947, 1953  
41.20 Meiklejohn, Alexander, 1917  
41.21 Michelson, A. A., 1917, 1921, 1923, 1939  
41.22 Minnesota, University of, Regents, 1917  
41.23 Moulton, F. R., 1928, 1930  
41.24 Munro, William, 1938, 1946  
41.25-41.27 "M" Miscellaneous Correspondence

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41.28 National Re-Dedication Radio Speech, December 14,  
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41.29 Nernst, W., 1892, 1896, 1939  
41.30 New York Times, 1928, 1931-1934, 1939  
41.31 Noyes, Arthur, 1921  
41.32-41.34 "N" Miscellaneous Correspondence  
41.35 Oberlin College, 1929, 1931-1932, 1934, 1937-1938, 1944  
41.36 Onnes, Kamerlingh, 1916, 1920-1921  
41.37 Oppenheimer, J. Robert, 1947  
41.38 "O" Miscellaneous Correspondence  
41.39 Page, James R., 1938, 1943-1944, 1946-1947, 1953  
41.40 Partington, J. R., 1913  
41.41 Planck, Max, 1931, 1947

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41.42	Prentice-Hall, Inc., 1948, 1950-1951, 1953-1954
41.43	Przibram, Karl, 1912
41.44-41.45	"P" Miscellaneous Correspondence
42.1	Rayleigh, John William Strutt, 1918
42.2	Reichenbach, Hans, 1933
42.3	Richardson, O. W., 1915
42.4	Ricketts, L. D., 1929, 1934-1936, 1938
42.5	Robinson, Henry M., 1926, 1933-1934, undated
42.6	Root, Elihu, 1928, 1935-1937
42.7	Ruddock, Albert, 1938
42.8	Rutherford, Ernest, 1909, 1919, 1923, 1934
42.9	(Copies of Originals in Cambridge University Library), 1919, 1920 (not microfilmed)
42.10	Ryerson, Martin A., 1917, 1919, 1921
42.11-42.13	"R" Miscellaneous Correspondence
42.14	Salisbury, R. D. (University of Chicago), 1917
42.15	Sarton, George, 1934, 1936-1937, 1941
42.16	Schrader, Paul, 1896
42.17	Sommerfeld, Arnold, 1929, 1948-1949
42.18	Stewart, G. W., 1943-1944, 1950
42.19	Stieglitz, Julius, 1920
42.20-42.25	"S" Miscellaneous Correspondence

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42.26	Thacher, School, 1921-1922, 1924
42.27	Tolman, Richard C., 1944, 1946
42.28	Townsend, J. S., 1936
42.29-42.30	"T" Miscellaneous Correspondence
42.31	"U" Miscellaneous Correspondence
42.32	"V" Miscellaneous Correspondence
42.33	Wecter, Dixon, 1947-1948
42.34	Westphal, Wilhelm, 1912, 1920, 1933, 1946
42.35	Wheeler, Benj. I., 1917
42.36	White, William Allen, 1928, 1937, 1939-1942, 1944
42.37	Woodward, Robert S., 1913
42.38	Wright, Orville, 1919, 1928
42.39-42.41	"W" Miscellaneous Correspondence
42.42	"Y" Miscellaneous Correspondence
42.43	Unidentified Letters/Miscellany, 1917-1940
43.1 -43.6	Nobel Prize: Congratulatory Messages, 1923
43.7	Clippings, 1923
43.8	Miscellany, 1923
43.9	Retirement Announcement: Messages, Aug-Sept 1945

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43.10	"Read the Book" Speech, 1950-1951
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- 43.11            Personal Correspondence (Copies of originals in the  
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                 University of Chicago), 1896-1921 (not  
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- 44.1            RAM Birthday Congratulatory Messages: Sixtieth  
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- 44.2            Seventieth Birthday, 1938
- 44.3            Eighty-Second Birthday, 1950
- 44.4            Eighty-Third Birthday, 1951
- 44.5            Eighty-Fifth Birthday, 1953
- 45.1            Death of Greta Blanchard Millikan: Helen Halloway  
                 Correspondence, 1953
- 45.2 -45.4      Condolence Letters

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- 45.5            Obituary Notices
- 45.6            Greta Millikan's Funeral Wishes
- 45.7            Funeral Service Scripts for Robert and Greta  
                 Millikan
- 45.8            Death of Robert A. Millikan: Bequest to the  
                 Huntington Library, 1954
- 45.9            Obituary Notices
- 45.10           Condolence Letters, 1953
- 46.1            Patent Dispute: Arnold vs. Langmuir, 1922
- 46.2            Defendant's Folder of Patents and Publications
- 46.3 -46.4      Quotations Written or Selected by RAM
- 46.5            Contracts with Publishers, 1914-1936
- 46.6 -46.9      Revisions of Texts, 1939-1948
- 46.10           Reviews of Books (Cosmic Rays), 1940
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- 47.4            Oskar and Anna Bolza, 1908-1916
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- 47.7 -47.9      "C" Correspondence, 1913-1953
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49.8 -50.4	March-April 1918-1921
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51.1 -51.4a	Greta B. to Robert A. Millikan, 1908, 1912-Feb 1918
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51.5 -52.2a March 1918-Dec 1921

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53.2 Honeymoon, 1901-1902  
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54.9 -54.14 Jessie Walker, undated, 1907-1923, 1930-1946,  
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55.1 Clark B. Millikan: Early Writings  
55.2 -55.9 Clark B. Millikan Correspondence: to Family,  
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- 57.18 Correspondence re Glenn Allan Millikan  
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- 58.7 To Greta Millikan, 1917-1939, undated ca.  
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- 58.8 From Greta Millikan, 1952-1953
- 58.9 To Robert A. Millikan, 1938-1950, undated
- 58.10 From Robert A. Millikan, 1917, 1939-1953
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- 58.12 Max F. Millikan Miscellany
- 58.13 Max F. and Jeanne Millikan Correspondence: from  
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- 58.14 From Robert A. Millikan, 1938, 1939, 1943,  
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- 58.15 Jeanne (Mrs. Max F.) Millikan Correspondence:  
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- 58.16 From Greta Millikan, 1952
- 58.17 Max F. Millikan Children Correspondence with  
Greta and Robert Millikan, 1950-1953

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Addresses 1917-1933

- 59.1 University of California, Jan 19, 1917
- 59.2 Illuminating Engineering Society, Oct 21, 1918
- 59.2a "Throop's Opportunity," Jan 6, 1920
- 59.3 "Science and Human Affairs," American Education,  
XXVII, 2 (Oct 1923)
- 59.4 Nobel Prize Lecture, "The Electron and the  
Light-Quant from the Experimental Point  
of View," Scribner's Magazine, LXXVII  
(Jan 1925), 75-84
- 59.5 Delivered in Support of Campaign of University  
of Chicago, March 21, 1925

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- 59.6            "Something New Under the Sun," Sunset Club,  
                 May 29, 1925
- 59.7            Cornerstone Laying, American Legion Building,  
                 Pasadena, May 30, 1925
- 59.8            "The World Court," Culbertson Hall, Dec 5, 1925
- 59.9            "The Birth of an Idea," Los Angeles Chamber of  
                 Commerce, Feb 23, 1926
- 59.10           "Results of Recent Experiments on Cosmic Rays,"  
                 April 29, 1926
- 59.11           Delivered at Vassar, Oct 21, 1926
- 59.12           "The Place of Evolution in Religion,"  
                 Congregational Church, Pasadena, Dec 1926
- 59.13           Unveiling of the Soldiers' Monument, Feb 12, 1927
- 59.14           Conference on Church Unity, The Neighborhood  
                 Church, Oct 18, 1927
- 59.15           T. H. Morgan Dinner, University Club, Los Angeles,  
                 Feb 2, 1928
- 59.16           "Available Energy," upon receipt of the Gold Medal  
                 of the British Society of Chemical Industry,  
                 Sept 1928; R. A. Millikan, Science and the  
                 New Civilization (New York, London: Scribners,  
                 1930)
- 59.17           In support of the campaign of Herbert Hoover,  
                 Oct 31, 1928
- 59.18           Annual Dinner of New York State Chamber of  
                 Commerce, Nov 18, 1928
- 59.19           "Three Elements in Human Progress," U.S.C.,  
                 May 16, 1929
- 59.20           "Science and Spiritual Values," Class of 1929 at  
                 University of Michigan, June 1929
- 59.21           "Religion in a World of Science," Lawrence, Kansas,  
                 June 9, 1929
- 59.22           "The Place of Science in Modern Progress," Carnegie  
                 Tech, June 11, 1929
- 59.23           "Fire," 50th Anniversary Meeting of A.S.M.E.,  
                 April 8, 1930
- 59.24           Re: Huntington Library Tax Abatement, radio  
                 broadcast, Nov 3, 1930
- 59.25           "Science--The Nation's Inexhaustible Reserve,"  
                 Association of Life Insurance Presidents,  
                 Dec 12, 1930
- 59.26           "Present Status of Theory and Experiment as to  
                 Atomic Disintegration and Atomic Synthesis,"  
                 Dec 13, 1930
- 59.27           Meeting of Phi Beta Kappa Alumni, Dec 16, 1930
- 59.28           Los Angeles City Hall honoring Albert Einstein,  
                 Feb 23, 1931



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- 59.29 "Opportunities in Science," April 8, 1931  
59.30 The Philosophical Society, April 1931  
59.31 "The March of Science," May 11, 1931  
59.32 "Radio's Past and Future," radio broadcast,  
May 1931  
59.33 "Edison's Contribution to Human Welfare and  
Science," Jan 15, 1932  
59.34 "The Influence of the Berkshire Farmer,"  
Bicentenary of George Washington's Birth,  
June 22, 1932  
59.35 "The March of Science," June 1932  
59.36 "What It Is All About," Aug 1932  
59.37 Upon receipt of the Gold Medal of Honor from the  
Roosevelt Memorial Foundation, Oct 27, 1932  
59.38 Relative to Herbert Hoover, Oct-Nov 1932  
59.39 Astronomy and Physics Club, Dec 2, 1932  
59.40 "New Techniques in the Cosmic Ray Field and  
Some Results Obtained with Them," AAAS  
Meeting, Dec 30, 1932  
59.41 "A Physicist's Dream," University of Kansas  
Commencement, June 12, 1933  
59.42 "The Contribution of Physics to the Progress of  
Mankind," June 1933  
59.43 "Why Study the Stratosphere," June 28, 1933  
59.44 Addresses of Welcome: 1926-1933

Articles 1915-1933

- 59.45 "Atomism in Modern Physics," Sept 1915  
59.46 "The Structure of Matter," Feb 2, 1924  
59.47 "Some Exceptional Opportunities in Southern  
California," April 11, 1924  
59.48 "The Astronomy of the Atom," May 1924  
59.49 "New Light on Light" [abstract], May 1925  
59.50 "Forty Years of Progress in Physics," Nov 23, 1925  
59.51 "Cosmic Rays," Dec 1925  
59.52 "American Contributions to the Scientific Progress  
of the World in the Field of the Physical  
Sciences . . ." April 1926  
59.53 "The Dependence of the Progress of the World upon  
Pure Science Research . . ." New York Times,  
April 1926  
59.54 "Physics," submitted to Encyclopaedia Britannica,  
[not published], May 1926  
59.55 "The Stripped Atom," Scribner's Magazine, LXXIX  
(1926), 477-485  
59.56 "Nationalism in Science," July 2, 1927  
59.57 "The Birth of Two Ideas," 1927  
59.58 "The major purposes and ideals of the California  
Institute of Technology. . ." Pasadena Star-News  
Tournament of Roses Edition, Jan 1928

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- 59.59        "The Relation of Science to Industry," Science,  
                 LXIX, 1776 (Jan 11, 1929), 27-31.
- 59.60        "The Place of Science in the Modern World,"  
                 Millsaps College Bulletin, XIII, 5 (May 1930),  
                 1061-1073; reprinted from "Alleged Sins of  
                 Science," Scribner's Magazine (Feb 1930),  
                 119-129
- 59.61        "On the Question of the Constancy of the Cosmic  
                 Radiation and the Relation of these  
                 Rays to Meteorology," 1930
- 59.62        "Why Physics Must Be Fostered in the United  
                 States," March 18, 1931
- 59.63        "The Rise of Physics," Dec 1931
- 59.64        "Cosmic Ray Ionization and Electroscopes Constants  
                 as a Function of Pressure," Dec 9-12, 1931
- 59.65        "The Present Status of the Evidence as to the Place  
                 and the Mode of Origin of the Cosmic Rays,"  
                 April 9, 1932
- 59.66        "The Wright Act," Oct 15, 1932
- 59.67        "New Techniques in the Cosmic Ray Field and Some  
                 of the Results Obtained with Them,"  
                 Physical Review, XLIII (April 15, 1933),  
                 661-669
- 59.68        "What Religion Means to Me," Nov 11, 1933

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Addresses 1934-1940

- 60.1        "Science Makes Jobs," New York Electrical Society  
                 and American Institute of Physics,  
                 Feb 22, 1934
- 60.2        Outline for Address at Berkeley, May 22, 1934
- 60.3        Cornerstone Laying, Griffith Observatory and Hall  
                 of Science, July 12, 1934
- 60.4        "Excess Government May Spoil the American Dream,"  
                 NBC radio broadcast, Aug 6, 1934
- 60.5        Chicago Conference of the National Advisory Council  
                 on Radio in Education, Oct 8, 1934
- 60.6        "Achievements of Science in 1934," partial  
                 transcript of radio program, Dec 28, 1934
- 60.7        "The 1934 Value of the Electron and Related  
                 Constants"
- 60.8        "The New Deal in Physics," 1934
- 60.9        "Edison and the World's Advance in Science,"  
                 radio broadcast, Feb 11, 1935
- 60.10       "The Significance of Modern Science for the Years  
                 Ahead," April 1935

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- 60.11 "In the Coming Century," April 1935
- 60.12 "What is Civilization?" Mills College, June 10, 1935
- 60.13 For Community Chest, Sept 6, 1935
- 60.14 "Whither Civilization?" Eighth Annual Meeting,  
California State Bar, Sept 20, 1935
- 60.15 Part of a radio program commemorating the 400th  
Anniversary of Printing of Bible in English,  
Oct 6, 1935
- 60.16 "The Road to Peace," Peaceways Program, radio  
broadcast, Nov 7, 1935
- 60.17 "Whither Scientific Research in Industry?" U.S.  
Institute for Textile Research, Nov 14, 1935
- 60.18 "Recent Progress in Physics," Columbia Broadcasting  
Company, Dec 14, 1935
- 60.19 Dedication of New York Museum of Science and  
Industry, radio broadcast, Feb 11, 1936
- 60.20 "Woman's Century," Oberlin's Celebration of the  
100th Anniversary of Admission of Women,  
Oct 8, 1937
- 60.21 "The Great Problem of the Secondary Schools,"  
Teachers of Salt Lake City, Oct 22, 1937
- 60.22 "Scandinavian-American Relations," 1937
- 60.23 "The Significance of Libraries," Dedication of Webb  
School Library, Feb 27, 1938
- 60.24 Pasadena Chamber of Commerce Banquet, April 6, 1938
- 60.25 "Science and Education in a Democracy," Packer  
Collegiate Institute, April 20, 1938
- 60.26 Ulster-Irish Society, April 22, 1938
- 60.27 Astronomy on Parade Program, radio broadcast,  
Nov 29, 1938
- 60.28 "The Preservation of Freedom," Bill of Rights Program,  
radio broadcast, Dec 14, 1938
- 60.29 "Science and the World of Tomorrow," May 9, 1939
- 60.30 Speeches in Australia, Sept and Oct, 1939
- 60.31 "Living Philosophies," 1939
- 60.32 "Science and Social Justice," [undated]
- 60.33 "United We Stand; Divided We Fall," [undated]
- 60.34 "The World of Tomorrow," for "America, Wake Up"  
Crusade, April 29, 1940
- 60.35 "India and the War," June 12, 1940
- 60.36 "Benjamin Franklin as a Scientist," Franklin  
Institute, Oct 1940
- 60.37 "Centralizing Tendencies in American Education,"  
Nov 14-15, 1940
- 60.38 "The American Way of Living--Our Inventive Fertility,"  
radio broadcast, Nov 17, 1940
- 60.39 Committee to Defend America by Aiding the Allies,  
Nov 20, 1940

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- 60.40            India Address, 1940
- 60.41            "The Biggest Job of the American Higher  
                  Educational System," Dec 5, 1940
- 60.42            "War and Science," given at Symposium on War and  
                  Civilization, Dec 8-13, 1940
- 60.43            "Crescat Scientia Vita Excolatur," Convocation--  
                  University of Chicago, Dec 17, 1940
- 60.44            "The Influence of the University of Chicago,"  
                  Dec 18, 1940

Articles 1934-1940

- 60.45            Interview in Los Angeles Times, March 10, 1934
- 60.46            "The Danger and Needs of American Education,"  
                  The Alabama Baptist, April 26, 1934
- 60.47            "In the Coming Century," Sept 1934
- 60.48            "The Physical Exhibits," Planetarium booklet,  
                  May 14, 1935
- 60.49            "Democracy's Destiny," May 28, 1935
- 60.50            "Radio's Part in the Creation of an Intelligent  
                  Electorate," Radio and Education (1935),  
                  10-16
- 60.51            Foreword for a Book on Christian Education,  
                  David C. Cook Publishing Co., June 12, 1936
- 60.52            A Statement of Conviction in Regard to Our Present  
                  Need for a Return to a More Spiritual Way of  
                  Life, July 28, 1936
- 60.53            "Some New Results in the Field of Cosmic Rays,"  
                  Harvard Tercentenary, Sept 8, 1936
- 60.54            "What Science Has to Say about the Present World  
                  Situation," New York Times, 1936
- 60.55            For the Community Chest, 1937, 1938
- 60.56            "Cosmic Rays," Think, April 1938
- 60.57            "Frontiers in Science," Excerpts from Address for  
                  Annual Meeting of Chamber of Commerce of the  
                  U.S., Think, June 1938
- 60.58            "State Humane Pound Law," Pasadena Star-News, and  
                  Statements Thereto, Sept-Nov 1938
- 60.59            Statement on Christmas, Omaha World-Herald,  
                  Dec 22, 1938
- 60.60            "Albert Abraham Michelson," Scientific Monthly,  
                  Vol. XLVIII (Jan 1939), 16-27
- 60.61            "Science on Parade," Think (Feb 1939),  
                  38-39
- 60.62            "A Summary of Results of the High Altitude Cosmic  
                  Ray Survey in India 1939-1940"
- 60.63            A Statement on Cosmic Ray Studies in India for  
                  Science Service, March 20, 1940

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- 60.64 "New Discoveries about the Nucleus of the Atom,"  
May 22, 1940
- 60.65 "Pillars of Democracy," Union League Club,  
Chicago, May 24, 1940
- 60.66 "An Attempt at an Appraisal of Cosmic-Ray  
Problems," Carnegie Institution of  
Washington, May 31, 1940
- 60.67 "R. A. Millikan Gives His Reasons for Supporting  
Willkie," Oct 26, 1940
- 60.68 "The Opportunity of the Physics Teacher,"  
Dec 30, 1940
- 60.69 "The Non Field Sensitive Component of the Cosmic  
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Addresses 1941-1949

- 61.1 "The Problem of Developing a Sense of Civic  
Responsibility," Jan 8, 1941
- 61.2 Transcript, Unlimited Horizons Program, Jan 10, 1941
- 61.3 For Broadcast of "Committee to Defend America by  
Aiding the Allies," Feb 5, 1941
- 61.4 "A Hypothesis as to the Origin of Cosmic Rays and the  
Experimental Testing of it in India and  
Elsewhere," April 28, 1941
- 61.5 "Isolationist Fallacies," Federal Union Program,  
radio broadcast, May 13, 1941
- 61.6 For American Legion Rally, June 5, 1941
- 61.7 "Three Weaknesses in the American Educational System  
and Possible Remedies," Stanford Semi-  
Centennial, June 16, 1941
- 61.8 Renaissance Conference, Huntington Library,  
Aug 4-6, 1941
- 61.9 Response to the Receipt of the Chinese Decoration  
of the Order of Jade, Dec 2, 1941
- 61.10 Mexico City, Dec 1941
- 61.11 "Science vs Superstition--Facts vs Fiction--Realism  
vs Hysteria," L.A. Realty Board, radio  
broadcast, Feb 6, 1942
- 61.12 "Cosmic Rays--What They Are and What They Mean,"  
NBC radio broadcast, May 16, 1942
- 61.13 "Science and War," 1942
- 61.14 "Science, War and Human Progress," 1942
- 61.15 "California Consults Lincoln," Lincoln Club,  
Feb 12, 1943
- 61.16 "Do Thinking Men Believe in God?" "Man's Part in  
Evolution in both Science and Religion,"  
prepared for a sound recording, March 13, 1943
- 61.17 Introduction of Madame Chiang Kai-shek, April 2, 1943

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61.18            Broadcast to Yugoslavs of Southern California,  
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61.19            Launching of the Ship Henry M. Robinson, Aug 8, 1943

61.20            Delivered to Members of the Armed Forces, 1943-1944

61.21            East and West Association, June 14, 1944

61.22            Pasadena Art Institute, May 31, 1945

61.23            "Research Needs for Future Industrial Expansion,"  
                  State Chamber of Commerce Meeting, Nov 29, 1945

61.24            R. A. Millikan's part in radio broadcast "My  
                  Brother's Blood," Dec 9, 1945

61.25            "Forks on the Road," 1945

61.26            "A Possible Interpretation of the East-West  
                  Effect," Jan 3, 1947

61.27            "Interdependence," Jan 10, 1947

61.28            "Atomic Energy, Its Release, Utilization and Control,"  
                  Stephens College and University of Michigan,  
                  April 1947

61.29            Transcript of a radio program for CBS, April 24, 1948

61.30            "Albert Abraham Michelson," Dedication of Navy's  
                  Michelson Laboratory at Inyokern, May 8, 1948

61.31            Symposium on Cosmic Rays in Honor of His 80th  
                  Birthday, June 25, 1948 (includes speeches by  
                  others)

61.32            WCTU of So. Calif., Nov 23, 1948

61.33            "What Research is Doing for You," Dec 3, 1948

61.34            "The Road to Peace," 1948

61.35            "The Contribution of the Independent College System  
                  to the American Educational System,"  
                  Centennial of William Jewell College, Jan 21,  
                  1949

61.36            "Benjamin Franklin and the Beginnings of Electricity,"  
                  and related correspondence, April 1949

61.37            Dedication of Earhart Foundation Plant Research  
                  Laboratory, Caltech, June 7, 1949

61.38            "Fifty Years of Physics in the United States,"  
                  June 18, 1949

61.39            Part of "Author of Liberty" Program [not used],  
                  June 1949

61.40            "The Significance of July Fourth Today and Tomorrow,"  
                  [not used], July 1949

61.41            Interview of R. A. Millikan by Charles Kettering,  
                  and related correspondence, Aug 25, 1949

61.42            On Dr. George Washington Carver, NBC radio  
                  broadcast, Dec 8, 1949

61.43            "The Boldness of Einstein's Approach to Physics,"  
                  1949

61.44            Chamber of Commerce on 60th Anniversary of CIT,  
                  Nov 9, 1951

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- 61.45 "The Effect on American Science of a Hitler Victory," Oct 3, 1941
- 61.46 "Cosmic Ray Studies from July 1, 1941 to June 30, 1942," Aug 8, 1942
- 61.47 "What Should the Ordinary Citizen Know About My Field of Science," Dec 31, 1942
- 61.48 "The Place of Copernicus in the Discovery of the Scientific Method," May 21, 1943
- 61.49 Written in Support of the Program of the International Council of Religious Education, July 24, 1943
- 61.50 Written for Time Capsule and Correspondence Concerning Its Fifth Anniversary, July 1943
- 61.51 "Further Studies on the Origin of Cosmic Rays," Oct 13, 1944
- 61.52 "A Scientist Looks at the Post-War World," Nov 20, 1944
- 61.53 "Knowledge is Power - Not Wisdom," Rotarian Magazine, Jan 1945
- 61.54 "Cosmic Rays," Encyclopedia Hebraica, June 25, 1946
- 61.55 "The Electron," Nelson's Encyclopedia, also related correspondence, Aug 1946
- 61.56 "My Faith," The American Weekly, Oct 20, 1946
- 61.57 "The Significance of the United States Patent System," The American Weekly, April 27, 1947
- 61.58 "The Most Vital Problem in American Education Today," Nov 25, 1946
- 61.59 Review of The Scientists Speak, edited by Warren Weaver, Jan 9, 1947
- 61.60 "The Road to Peace," 1947
- 61.61 "Albert A. Michelson," World Encyclopedia Institute, Feb 11, 1948
- 61.62 For Tenth Anniversary of Time Capsule (New York World's Fair 1938), and related correspondence, Aug 22, 1948
- 61.63 "The Progress of Physics from 1848 to 1948," Aug 1948
- 61.64 "The Facts about Number 12," Oct 23, 1948
- 61.65 Laying of Cornerstone, Crowell-Collier Building, and related correspondence, Jan 10, 1949
- 61.66 Views on Federal Aid to the Public Schools, June 3, 1949
- 61.67 For Inter-Nations Association Bulletin, VIII, 3, March 1953

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- 62.1 Addresses: 1950-1953
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63.23 "In the Coming Century," [three with the same title]  
63.24 "Indebtedness of the Railroads to Pure Science"  
63.25 "Laws Concerning the Pulling of Electrons Out of  
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63.28 To Members of the National Committee on Education by  
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63.29 "A More Accurate and More Extended Cosmic Ray  
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63.30 "My Philosophy or Two Supreme Elements in Human  
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63.31 "Nature of the Cosmic Rays" Chapter XVI of  
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63.32 "New High-Altitude Study of Cosmic Ray Bands and a  
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63.33 "Origin of the Cosmic Rays" R.A. Millikan and  
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63.34 "The Positive Electron"  
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SUPPLEMENTARY MATERIAL

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1. Millikan Notebook, "Electricity and Magnetism," Columbia University, 1894 (Property of Pomona College)
2. Millikan Manuscript, "New Techniques in the Cosmic Ray Field. . ." ca. 1932 (Property of Pomona College)
3. Lecture Notes: H.A. Lorentz, "The Quantum Theory: Present Day Problems and Outstanding Questions of the Quantum Theory," Cornell University, Fall Term, 1926

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